

Name \_\_\_\_\_

## Rational and Irrational Numbers

### Identifying Rational and Irrational Numbers

Classify the following numbers as rational or irrational AND explain WHY.

1) 0.54

2)  $7\frac{3}{4}$

3)  $\sqrt{12}$

4)  $0.\overline{89}$

5)  $\sqrt{49}$

6) 0.59378104...

### Estimating with Irrational Numbers

Estimate and solve the following expressions.

7)  $8 + \sqrt{5}$

8)  $3 + 2\sqrt{37}$

9)  $\sqrt{48} - 5$

### Fractions and Decimal Expansion

Write these fractions as decimals.

10)  $\frac{5}{8}$

11)  $5\frac{1}{3}$

12)  $\frac{9}{11}$

Write these decimals as fractions.

13) 0.35

14) 6.2

15)  $0.\overline{24}$